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(REV 10-94) TRANSMITTAL LETTER DESIGNATED/ELECT	R TO THE UNITED STATES FED OFFICE (DO/EO/US) NG UNDER 35 U.S.C. 371	OFFICE ATTORNEY'S DOCKET NUMBER 7510.192USWO		
	us application no (If known, see 37.6.F.R \$1.7 unknown 09/341817			
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED		
PCT/FI97/00703 17 November 1997				
TERMINAL ARRANGEMENT	MAKING A TELECOMMUNICATION	I CALL AND A TELECOMMUNICATION		
APPLICANT(S) FOR DO/EO/US				
Taina PUUMALAINEN Applicant herewith submits to the United States		1 1 1 1 6		
3. [X] This express request to begin national of examination until the expiration of the damped of the amendments to the clarational of the suppose of the International Application a. [X] is transmitted herewith (required by the International of International o	JENT submission of items concerning a filing examination procedures (35 U.S.C. 371(f)) at a applicable time limit set in 35 U.S.C. 371(b) at a applicable time limit set in 35 U.S.C. 371(b) at a Preliminary Examination was made by the 19 at a sfiled (35 U.S.C. 371(c)(2)) ared only if not transmitted by the International Bureau. Plication was filed in the United States Receiving Application into English (35 U.S.C. 371(c)(2)) International Application under PCT Article 19 (required only if not transmitted by the International Bureau. Wever, the time limit for making such amendmental not be made. To the claims under PCT Article 19 (35 U.S.C. 19 inventor(s) (35 U.S.C. 371 (c)(4)). Enternational Preliminary Examination Report	any time rather than delay and PCT Articles 22 and 39(1). 9th month from the earliest claimed priority date. Bureau). ing Office (RO/US) 9 (35 U.S.C. 371(c)(3)) ational Bureau). ents has NOT expired. 371(c)(3)).		
11. [] An Information Disclosure Staten	nent under 37 CFR 1.97 and 1.98. ording. A separate cover sheet in compliance w	rith 37 CFR 3.28 and 3.31 is included.		
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15. [] A change of power of attorney an	nd/or address letter.			
16. [X] Other items or information: copy of S	6. [X] Other items or information: copy of Swedish Patent Office International Search Report			

REGISTRATION NUMBER

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T-511 P.07/08 Ty8-730

VINSTRUCTIONS

SMALL BUSINESS

VERIFIEC STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS 37 CFR 1.9(1) AND 1.27(c)) - SMALL BUSINESS CONCERN

Check one insert company name and address	b) () an officidentif	ner of the small business concern identified below: ial of the small business concern empowered to act on behalf of the concern id below: ME OF CONCERN: HELP SET OY ORESS OF CONCERN: Imantia 3 F 38 FTN-90560 Oulu, Finland nat the above identified small business concern qualifies as a small business in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying ir section 41(a) and (b) of Title 35, United States Code, in that the number of concern, including those of its affiliates, does not exceed 500 persons. For tement, (1) the number of employees of the business concern is the average over ear of the concern of the persons employed on a full-time, part-time or temporary of the pay periods of the fiscal year, and (2) concerns are affiliates of each other y or indirectly, one concern controls or has the power to control the other, or a s controls or has the power to control both.
Check one, [Internal and	I hereby declare the business concern is conjunction with CALL AND A TELL a) () the special b) () application of the rights held by concern or organizate held by any per under 37 CFR 1.9(concern or organizate held by any per under 37 CFR 1.9(concern or organization having NAME_ADDRESS	t rights under contract or law have been conveyed to and remain with the small entified above with regard to the invention, entitled PROCEDURE IN H MAKING A TELECOMMUNICATION by inventor(s) Taina Puumalainen COMMUNICATION TERMINAL ARRANGEMENT described in ification filed herewith. pn serial no
The state of the s	t acknowledge the cresulting in loss of cearliest of the issue is no longer appropriate the statements made on were made with the fine or imprisonment willful false statements.	iDIVIDUAL b) () SMALL BUSINESS CONCERN c) () NONPROFIT ORGANIZATION cuty to file, in this application or patent, notification of any change in status at titlement to small entity status prior to paying, or at the time of paying, the see or any maintenance see due after the date on which status as a small entity ate. (37 CFR 1.28(b)) at all statements made herein of my own knowledge are true and that all information and belief are believed to be true; and further that these statements howledge that willful false statements and the like so made are punishable by or both under section 1001 of Title 18 of the United States Code, and that such is may jeopardize the validity of the application, any patent issuing thereof, or this verified statement is directed.
	NAME TITLE ADDRESS SIGNATURE	DATEL ZACZ-1997 Ole Le

V940919

MERCHANT & GOULD

T-511 P.08/08 Ty8-730

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VINSTRUCTIONS

INDEPENDENT INVENTOR(S)

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(1) and 1.27(b)) - INDEPENDENT INVENTOR

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09/341817 514 Rec'd PCT/PTO 19 JUL 1999

S/N unknown PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

PUUMALAINEN

Docket No.:

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Int'l Filing Date:

17 November 1997

Title:

PROCEDURE IN CONJUNCTION WITH MAKING A

TELECOMMUNICATION CALL AND A TELECOMMUNICATION

TERMINAL ARRANGEMENT

CERTIFICATE UNDER 37 CFR 1.10

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Date of Deposit: 19 July 1999

I hereby certify that this correspondence is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

By: HASSEN BUTE

PRELIMINARY AMENDMENT

Box PCT Assistant Commissioner for Patents Washington, D. C. 20231

Dear Sir:

In connection with the above-identified application filed herewith, please enter the following preliminary amendment:

IN THE ABSTRACT

Insert the attached Abstract page into the application as the last page thereof.

IN THE SPECIFICATION

A courtesy copy of the present specification is enclosed herewith. However, the World Intellectual Property Office (WIPO) copy should be relied upon if it is already in the U.S. Patent Office.

REMARKS

A new abstract page is supplied to conform to that appearing on the publication page of the WIPO application, but the new Abstract is typed on a separate page as required by U.S. practice.

Applicant respectfully requests that the preliminary amendment described herein be entered into the record prior to examination and consideration of the above—identified application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's primary attorney-of record, Michael B. Lasky (Reg. No. 29,555), at (612) 336-4634.

Respectfully submitted,

MERCHANT & GOULD P.C.

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Dated: 19 July 1999

MBL/smh

Michael B. Lasky

Reg. No. 29,555

By

ABSTRACT OF THE DISCLOSURE

The subject of the present invention is a procedure and an equipment arrangement in conjunction with making a telecommunication call. In said procedure implemented in conjunction with making a call, means of searching included in a telecommunication terminal arrangement are used to directly or indirectly at least partly browse through dial numbers stored in said telecommunication terminal arrangement to locate a desired dial number. Means of commanding included in said telecommunication terminal arrangement are used to command a transmitter of said telecommunication terminal to begin making a direct or indirect call to a final, retrieved dial number. According to the present invention, in conjunction with said direct or indirect browsing, graphic information, which identifies the owner of each dial number and which is stored in a graphic memory of said telecommunication terminal arrangement, is displayed on a display of said telecommunication terminal arrangement.

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PCT/FI97/00703

A procedure in conjunction with making a telecommunication call and a telecommunication terminal arrangement

The subject of the present invention is a procedure in conjunction with making a telecommunication call, in which procedure means of searching included in a telecommunication terminal arrangement are used to directly or indirectly at least partly browse through dial numbers stored in said telecommunication terminal arrangement to locate a desired dial number, and means of commanding included in said telecommunication terminal arrangement are used to command a transmitter of said telecommunication terminal arrangement to begin making a direct or indirect call to a final, retrieved dial number, and in which procedure, in conjunction with said direct or indirect browsing, graphic information, which identifies the owner of each dial number and which is stored in a graphic memory of said telecommunication terminal arrangement. is displayed on a display of said telecommunication terminal arrangement.

The subject of the present invention also is a telecommunication terminal arrangement, which comprises a transmitter, a dial number memory and means of searching used to locate a desired dial number in said dial number memory, and means of commanding used to command said transmitter to begin making a call to a dial number retrieved from said dial number memory, and which arrangement comprises a graphic memory including graphic information which illustrates the owners of said dial numbers included in said dial number memory, which graphic memory is linked to function together with said dial number memory so that while directly or indirectly browsing said dial numbers, said arrangement displays graphic information related to said owner of said dial number on a display included in said arrangement and/or a display connected to said arrangement.

Because of aging and the complexity and difficulty of using devices, making a phone call is especially difficult for elderly people. For this reason, security phones have been developed which comprise a terminal bracelet connected via a transceiver to an actual terminal device located in an elderly person's residence, which terminal device is connected to a fixed telephone network. The bracelet comprises a button by which a call can be made, e.g., via the actual terminal device connected to the fixed network. A deficiency of said device is that it can only be used to call a specific number, and said device does not provide clear information about where the call is going to, or even information about whether or not the call has left.

Complete cellular network phones integrated into bracelets are known, e.g., described in publications EP-681 390 and EP-572 252, but they do not provide the user with sufficient and easily obtainable information about making a call.

For instance, GSM phones include a known solution whereby pressing the ABC key, for example, causes the display to display a text showing the name linked to each number in the phone number memory, but this function is difficult for an elderly person to perform, and on the other hand, this type of function is not sufficiently clear and informative.

Another problem associated with solutions according to the prior art is that the user may accidentally call an emergency number, for example, whereupon an ambulance or the police make an unnecessary visit.

Publication WO-94/01958 describes a device intended for use in a vehicle, equipped with a hands-free function, including a voice-controlled audio menu that supplements or replaces a normal visual menu. The audio menu facilitates use of the device, but the device is still deficient when considering its use by elderly people and other persons with special needs.

In receiving a call, with GSM phones, for example, the use of A-subscriber recognition is known, whereby it is possible to show the name of the caller on the display, but said solution does not provide sufficient noticeable information.

The purpose of the present invention is to bring forth a new procedure and arrangement that avoids the problems associated with solutions of the prior art.

Said purpose is achieved by means of a procedure according to the present invention, characterized in that while displaying graphic information identifying owners of dial numbers shown on a display, a move occurs from one main category of graphic memory to another main category, and within a desired main category, a move occurs between subcategories and/or members of said main category

Said purpose is achieved by means of a telecommunication terminal arrangement. characterized in that said graphic memory comprises a menu structure, which comprises several main categories, and said main categories comprise one or more subcategories and/or members of said main category.

The solution according to the present invention is based on the idea that the terminal device implements a graphic memory, which is linked to function together with a dial number memory/connection code memory.

The solution according to the present invention achieves several advantages. A device according to the present invention is very informative, as it shows the user graphic information, e.g., a picture of a relative, to inform the user that a number retrieved from the number memory is precisely the number of the relative the user wishes to call. The user can unconcernedly give a command to make a call, whereupon the phone begins to make a phone connection to said relative. Advantageous realizations and other specific realizations of the present invention emphasize the advantages of the invention. The telecommunication connection may be a voice connection, data connection or other connection.

The present invention is explained in more detail in the following, with references to the enclosed drawings.

Figure 1 presents a block diagram of an arrangement according to one embodiment.

Figure 2 presents a first embodiment of an arrangement.

Figure 3 presents a menu structure of a graphic memory,

Figure 4 presents a menu structure illustrating one main category and a subcategory of said category

Figure 5 presents another embodiment of a display of a telecommunication terminal arrangement according to figure 2.

Referring to the figures, particularly figures 1 - 2. the object of the present invention is a telecommunication terminal arrangement 1 and a procedure used therein for making a telecommunication call and answering a telecommunication call. To begin with, the present invention is described as far as making a call is concerned.

The telecommunication terminal arrangement 1 comprises a transceiver 2, a dial number memory 3, i.e., a phone number memory 3, means of searching 4 used to locate a phone number from said phone number memory 3, and means of commanding 5 used to command said transceiver to attempt to make a call to a phone number retrieved from said phone number memory. Said arrangement also comprises a control unit 6, a microphone 7, earphones 8, an antenna 9, and a display 10. A dial number refers to an actual number or its code.

A telecommunication terminal arrangement 1 according to the present invention comprises a graphic memory 21 including graphic information which illustrates the owners of said phone numbers included in said phone number memory 3, which graphic memory is linked to function together with said phone number memory 3 so that while directly or indirectly browsing said phone number memory 3 said device is arranged to display graphic information related to said number (being currently accessed during said browsing procedure) on a display 10 included in said arrangement and/or a display connected to said arrangement.

Referring to figure 3. an advantageous embodiment of the present invention comprises a menu structure 30 comprising several main categories 31 - 34, and said main categories comprise one or more subcategories and/or members 31a - 31d, 32a - 32d. 33a - 33d, 34a - 34d of said main category. Said main categories of said menu structure 30 include one or more of the following main categories: health care services 31. transportation services 32. stores 33. authorities/agencies 34. relatives, friends. financial institutions. The example in figure 4 illustrates a health care services main category 31 and its subcategories 31a - 31d. Said subcategories are ambulance 31a. health care center physician 31b, apothecary 31c and health care center 31d.

In an advantageous embodiment of the present invention, said display 10 is a touch, pressure or otherwise sensitive display which also forms a means of commanding used to command said transceiver 2 to begin directly or indirectly making a call to a final retrieved phone number. In this case separate means of commanding are not necessary, making said device easier to use.

 Direct (directly connected to a telecommunication network) calling means that, e.g., a bracelet-type complete device 1 calls a cellular network base station, for example, and thereby a final phone number. Indirect calling means that, e.g., a bracelet-type device 1 wirelessly first calls a terminal (not presented) included in said telecommunication terminal arrangement located in an elderly person's residence, and said terminal is connected to a telephone network via a normal fixed connection.

Referring especially to figure 2, in an advantageous embodiment of the present invention, said arrangement 1 is primarily formed into a single entirety, advantageously in the form of a bracelet 1a, which comprises said means, i.e., a transceiver 2, a phone number memory 3, a graphic memory 21, means of searching 4, means of commanding 5, a display 10 and/or a display connection, earphones 8 and/or an earphone jack, and a microphone 7 and/or a microphone connector. In such a case said device is compact and easy to use.

In an advantageous embodiment of the present invention, said arrangement 1 is realized using a cellular radio phone, such as a cellular radio phone operating in a GSM, DCS or CDMA system. Naturally, other types of networks and their terminal technologies are suitable.

Referring mainly to figure 1, it is stated that in an advantageous embodiment of the present invention, said display is a separate unit apart from an integrated entirety formed by said transceiver 2, phone number memory 3, graphic memory 21, means of searching 4, and means of commanding 5, said separate unit being connected by wire or wirelessly to said integrated entirety. In such a case in an advantageous embodiment said display is a television. In this embodiment it is possible to form a large color image. Nevertheless, according to the present applicant's observations, the best embodiment is in accordance with figure 1, i.e., said display 10 is included in said device 1a, because in that case said display is always with the user.

From the standpoint of a procedure, this is a question of a procedure in conjunction with making a telecommunication call. In said procedure, means of searching 4 included in a telecommunication terminal arrangement 1 are used to directly or indirectly at least partly browse through phone numbers stored in said telecommunication terminal arrangement to locate a desired phone number, and means of commanding 5 included in said telecommunication terminal arrangement are used to command a transceiver 2 of said telecommunication terminal to begin directly or indirectly making a call to a final retrieved phone number. In an embodiment including a display like the one presented in figure 1, the term at least partly browse means that naturally, a person does not need to browse through all of said phone numbers and/or all of said images, but rather, browsing is performed until the user has caused the graphic information linked to the desired phone number to be displayed. In an embodiment including a display like the one presented in figure 5, the term at least partly browse means that the user directly selects the desired image (and the number linked to said image).

In the procedure according to the present invention, while directly or indirectly browsing said phone numbers. said arrangement retrieves graphic information

identifying each phone number from said graphic memory of said telecommunication terminal arrangement and displays said graphic information on said display 10 included in said telecommunication terminal arrangement.

The term indirect browsing is illustrated by means of the following advantageous embodiment. In an advantageous embodiment of the present invention, indirect, at least partial browsing of said phone numbers is performed by at least partly browsing through said graphic memory 21 linked to said phone number memory 3. Basically, however, this is a question of browsing through said phone number memory 3, because the contents of said phone number memory 3 are linked by pairs with the contents of said graphic memory 21. At the same time, the phone number linked to said displayed graphic information can be retrieved from said phone number memory 3. Said embodiment is advantageous because said phone number and/or a name linked to said phone number can also be displayed, and also because said number is already retrieved, whereupon the number associated with said image is known before the means of commanding 6 are used to give a command to make a call. In another embodiment of the present invention, a number is retrieved from said number memory only for the graphic information that at which the user ceases to browse the graphic memory 21 and commences to press or otherwise activate means of commanding 5, i.e., a phone number is retrieved only for the graphic information corresponding to the number to which the user wishes to call. The advantage of this embodiment is quicker, simpler operation.

The term direct partial browsing is illustrated by means of the following advantageous embodiment. In an advantageous embodiment of the present invention, direct, at least partial browsing of said phone numbers is performed by at least partly browsing through the phone number memory 3 linked to the graphic memory 21. The advantage of this embodiment is that the number is known and it can be shown on the display 10.

In an advantageous embodiment of the present invention, said graphic information is color and/or black and white graphic information similar to photographic information. In figure 1 the graphic information shows an elderly person's grandchild, for example.

In an advantageous embodiment of the present invention, said graphic information covers a significant part, advantageously at least 50 - 80 %, perhaps even 100 % of the display of said telecommunication terminal arrangement 1. Most advantageously, said display 10 is almost completely covered, except for a part of said display that conventionally shows a phone number or the name of the owner of a phone number or other information.

In an advantageous embodiment of the present invention, a move is made from one image to the next in the graphic memory by touching, pressing or otherwise activating said display, for example by using means of searching 4 to move to the next graphic information. This feature simplifies use.

In an advantageous embodiment of the present invention, after a specified time delay, said graphic information is automatically replaced by said next graphic information. A

delay element is represented by block 200. This type of autoscrolling facilitates use of the device. In an advantageous embodiment said time delay is a few seconds. for example, 3 - 6 seconds.

The following also refers to figure 5. Figure 5 presents second embodiment of a display 10 of a telecommunication terminal arrangement according to figure 2, which version comprises several display parts 10a - 10i. In said version of figure 5, all said display units display graphic information. and the user selects one of these by pressing or otherwise indication a selection. Thus, said graphic information is already displayed before said user has performed a search. However, according to the applicant's observations, said version is not as advantageous as the previously described version, where said images are displayed by turn, allowing a large image as shown in figure 2. The version presented in figure 5 is included in the basic idea of the present invention, because the user's deliberation and selection of one image from among many can be considered partial browsing of phone numbers, where browsing is performed only for one number, i.e., the selected number.

In a certain other embodiment figure 5 can be interpreted as such that the images are images of a main menu, and images found "under" said main category are images belonging to said main category. This means, for example, that "under" the main category image icon in display part 10f, which presents agencies, there is graphic information related to agencies, which is accessible by pressing, and telephone numbers linked to said graphic information are naturally stored in said phone number memory 3.

In an advantageous embodiment of the present invention, the search for a number can be made even clearer by using audio memory 300 in addition to graphic memory. Said audio memory uses a hearing aid 8 or speaker or other means of producing sound to relay an audio signal informing the user the identity of the owner of the phone number being currently accessed while browsing said phone number memory 3. Said audio signal is created in conjunction with said graphic information, providing the most effective result. Most advantageously said audio memory 300 and graphic memory 21 are essentially the same means of memory, which includes multimedia-type graphic and audio information. Said stored graphic and audio information can be realized by means of a suitable integrated memory circuit.

Said arrangement may also include a conventional keyboard 600, particularly when a device is in question that also functions as a normal terminal device of a cellular radio network. Said device may also comprise means or at least a connection by which the information content of memory 21 and/or 300 can be modified.

Also referring to figure 1, the object of the present invention is a procedure and telecommunication terminal arrangement in conjunction with receiving a telecommunication call in call reception. Said device comprises a receiver part 2. RX, a connection code memory (e.g., a phone number memory) 3, and means of identifying 700 used to identify a connection code in a telecommunication call to said telecommunication terminal. Said arrangement also comprises a graphic memory 21 including graphic information which illustrates the owners of said connection codes

included in said connection code memory 3, which graphic memory is linked to function together with said connection code memory 3 and means of identifying 700 so that said arrangement displays graphic information related to said owners of said connection codes on a display 10 included in said arrangement and/or a display connected to said arrangement. In an example situation according to figures 1 and 2. said display 10 of said arrangement 1 displays the image of the person calling his/her own number in said arrangement.

The part of the procedure of the present invention concerning reception of a telecommunication call is a question of displaying graphic information identifying the owner of said connection code found in said graphic memory 21 included in said telecommunication terminal arrangement on said display 10 of said telecommunication terminal arrangement. Thus, said device identifies the number from which a call has come and retrieves graphic information corresponding to said number from said graphic memory and displays said graphic information on said display 10.

Thus, said connection code may be a caller's phone number, but said connection code may also be e.g., an identifying code or similar code on which basis said telecommunication arrangement retrieves information related to said code from said graphic memory, which information may be advertisement information, for example. The effect can be enhanced by presenting audio information describing said caller/advertiser.

Although the present invention is described in detail above with references to example embodiments presented in the enclosed figures, it is clear that the present invention is not limited by the presented example embodiments, but rather it can be modified in many ways to the extent of the innovation described by the enclosed claims.

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Claims

1. A procedure in conjunction with making a telecommunication call, in which procedure means of searching (4 or 10a - 10i) included in a telecommunication terminal arrangement (1, 1a) are used to directly or indirectly at least partly browse through dial numbers stored in said telecommunication terminal arrangement to locate a desired dial number, and means of commanding (5 or 10, 10a - 10i) included in said telecommunication terminal arrangement are used to command a transmitter (2, TX) of said telecommunication terminal to begin making a call to a final, retrieved dial number, and in which procedure, in conjunction with said direct or indirect browsing, graphic information, which identifies the owner of each dial number and which is stored in a graphic memory (21) of said telecommunication terminal arrangement, is displayed on a display (10) of said telecommunication terminal arrangement.

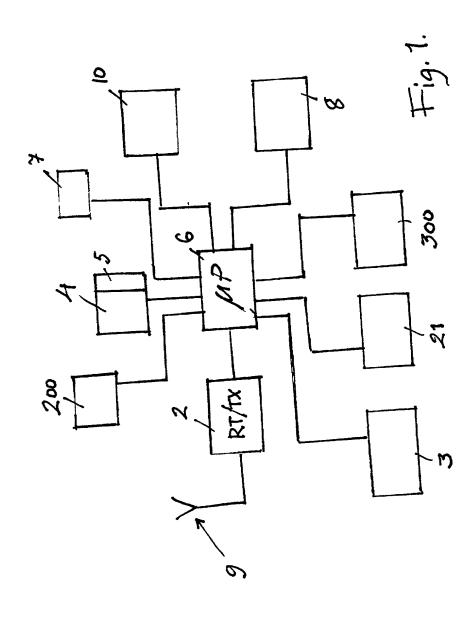
is characterized in that while displaying said graphic information identifying said owners of said dial numbers on said display, a move occurs from one main category of said graphic memory to another main category, and within a desired main category, a move occurs between subcategories and/or members of said main category.

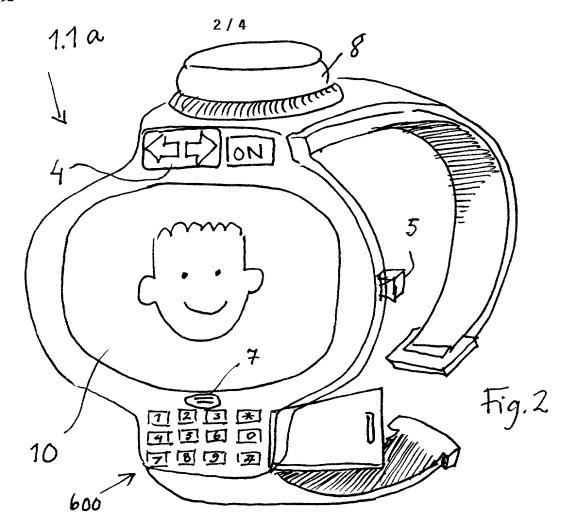
- 2. The procedure according to claim 1, characterized in that said graphic information is color and/or black and white information similar to photographic information.
- 3. The procedure according to claim 1, characterized in that said graphic information fills a significant part, advantageously 50 100 %, of said display (10) of said telecommunication terminal arrangement.
- 4. The procedure according to claim 1, characterized in that said indirect, at least partial browsing of said dial numbers is performed by at least partially browsing said graphic memory (21) linked to a dial number memory (3).
- 5. The procedure according to claim 1, characterized in that said direct, at least partial browsing of said dial numbers is performed by at least partially browsing a dial number memory (3) linked to said graphic memory (21).
- 6. The procedure according to claim 1, characterized in that within said graphic memory (21), a move occurs to the next image by touching or pressing an image or by other means.
- 7. The procedure according to claim 1, characterized in that after a specific delay controlled by a delay unit (200), said displayed graphic information is replaced by the next graphic information.
- 8. A telecommunication terminal arrangement, which comprises a transmitter (2, TX), a dial number memory (3) and means of searching (4) used to locate a desired dial number in said dial number memory (3), and means of commanding (5) used to command said transmitter (2) to begin making a call to a dial number retrieved from said dial number memory (3), and which arrangement comprises a graphic memory

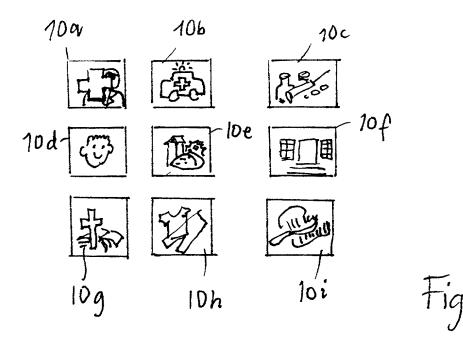
(21) including graphic information which illustrates the owners of said dial numbers included in said dial number memory (3), which graphic memory is linked to function together with said dial number memory (3) so that while directly or indirectly browsing said dial numbers. said arrangement displays graphic information related to said owners of said dial numbers on a display (10) included in said arrangement and/or a display connected to said arrangement,

is characterized in that said graphic memory comprises a menu structure (30), which comprises several main categories (31 - 34), and said main categories comprise one or more subcategories and/or members (31a - 31d) of said main category.

- 9. The arrangement according to claim 8, characterized in that said main categories of said menu structure (30) include one or more of the following main categories (31 34): health care services, authorities, relatives, friends, stores, financial institutions.
- 10. The arrangement according to claim 8, characterized in that said display (10, 10a 10i) is a touch, pressure, or otherwise sensitive display which also forms a means of commanding.
- 11. The arrangement according to claim 8, characterized in that said arrangement is primarily formed into a single entirety (1a), advantageously in the form of a bracelet, which comprises said means, which are a transmitter (2, TX), a dial number memory (3), a graphic memory (21), means of searching (4), means of commanding (5), a display (10) and/or a display connector, earphones (8) and/or an earphone jack, and a microphone (7) and/or a microphone connector.
- 12. The arrangement according to claim 8. characterized in that said display (10), which advantageously is a television, is a unit separate from said integrated entirety comprising a transmitter (2, TX), a dial number memory (3), a graphic memory (21), means of searching (4), and means of commanding (5), and which unit is connected by wire or wirelessly to said integrated entirety.
- 13. The arrangement according to claim 8. characterized in that said arrangement is realized using a cellular phone, such as a cellular radio phone operating in a GSM, DCS or CDMA system.
- 14. The arrangement according to claim 8, characterized in that said graphic memory is linked to function together with an audio memory (300) included in said arrangement, whereby said graphic memory and audio memory form a memory device which includes multimedia-type graphic and audio information.







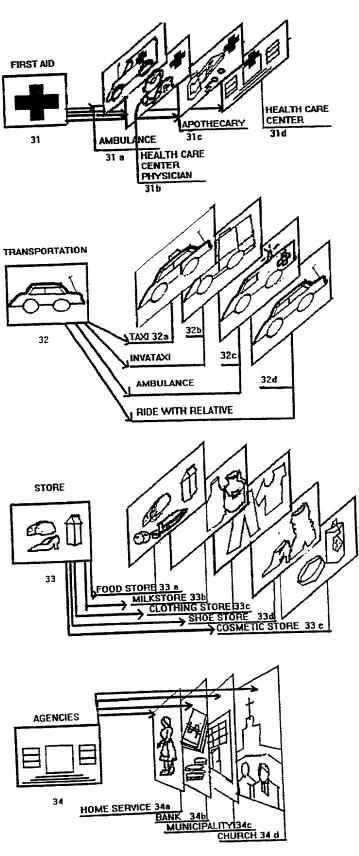
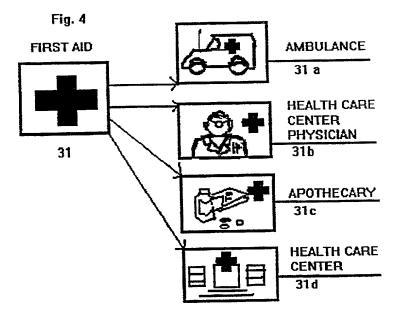


Fig. 3



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Attorney Docket No. 7510.192USWO

MERCHANT & GOULD P.C.

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: PROCEDURE IN CONJUNCTION WITH MAKING A TELECOMMUNICATION CALL AND A TELECOMMUNICATION TERMINAL ARRANGEMENT

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escribed and claimed in and for which I solicit a U	/ 1999 as application of the last of the l	CT/F197/00703 filed t.	117 November 1997 and	as amended on		have review
he specification of which is attached hereto was filed on 19 July	1					

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

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Hamre, Curtis B.	keg. No. 29.165	Underhill, Albert L.	Reg. No. 27,403
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Kadievitch, Natalie D.	keg. No. 34,196	Wahl, John R.	Reg. No. 33,044
Rastelic, Joseph M.	keg. No. 37,160	Whipps, Brian	Reg. No. 43,261
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Thereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould P.C. to the contrary.

Please direct all correspondence in this case to Merchant & Gould P.C. at the address indicated below:

Merchant & Gould P.C.

3100 Norwest Center
90 South Seventh Street
Minneapolis, MN 55402-4131

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereou.

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2	Full Name Of Inventor	Family Name PUUMALAINE		First Given Name Tains		Second Given Neme	
a	Residence & Citizenship	City Oulu	FIX	State of Foreign Country Finland		Cocatry of Citizenship Finland	
1	Post Office Address	Post Office Add Imantic J F 38	13	City Oulu		State 4 Zip Code/Country FIN-9056W Finland	
Sign	ture of Investor 20	12	melan		Date: 2	7.07.1299 all.	

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Mr. Hall Rad Rad

§ 1.56 Duty to disclose information material to patentability.

- A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes ahandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material in the patentability of any existing claim. The duty to disclose all information known to be material to patentability of disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by \$\$ 1.97(b)—(d) and 1.98. However, so patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carofully examine:
 - prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closes; information over which individuals associated with the filling or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prime facile case of unpatentability of a claim;

(2) It refutes, pr is inconsistent with, a position the applicant takes in:

- (i) Opposing an argument of unparentability relied on by the Office, or
- (ii) Asserting an argument of patentability.

Aprima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden of proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each investor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.